
Bid Security

Vendor

CITY OF NEWARK

Delaware

CONTRACT NO. 14-05

CORBIT STREET AREA WATER MAIN REPLACEMENT

NOTICE

Return intact with properly
completed forms or bid may be rejected.

CITY OF NEWARK

Delaware

CONTRACT NO. 14-05

CORBIT STREET AREA WATER MAIN REPLACEMENT

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ATTACHMENT 1 - PROJECT DRAWINGS

CITY OF NEWARK
Delaware

CONTRACT NO. 14-05

CORBIT STREET AREA WATER MAIN REPLACEMENT

NOTICE OF LETTING

Sealed bids for Contract No. 14-05, Corbit Street Area Water Main Replacement, will be received in the Purchasing Office, Newark Municipal Building, 220 South Main Street, Newark, Delaware 19711 until 2:00 p.m., prevailing time, Tuesday, June 10, 2014 and will be publicly opened and read aloud in the Council Chamber shortly thereafter.

Attendance is **MANDATORY** at a pre-bid Meeting on Wednesday, May 28, 2014 at 1:00 PM at the Newark Municipal Building, 220 South Main Street, Newark, DE. For information, call (302) 366-7055. All bidders are encouraged to perform a project site visit prior to the pre-bid meeting.

The Contract Documents may be obtained from the City's website www.cityofnewarkde.us. Information can be found by using the Bid/Proposal Opportunities link on the home page.

CITY OF NEWARK

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CONTRACT NO. 14-05

CORBIT STREET AREA WATER MAIN REPLACEMENT

GENERAL PROVISIONS

1. BIDS

Each bid shall be submitted on the proposal form included herein. The proposal and all other required documents must be submitted in a sealed envelope clearly identified with the bidder's name and marked "City of Newark - Contract No. 14-05, Corbit Street Area Water Main Replacement". Bid Documents must be received in the Purchasing Office prior to 2:00 p.m. prevailing time, Tuesday, June 10, 2014. Each bid so submitted shall constitute an irrevocable offer for a period of sixty (60) calendar days following the bid opening date.

Attendance is **MANDATORY** at a pre-bid Meeting on Wednesday, May 28, 2014 at 1:00 PM at the Newark Municipal Building, 220 South Main Street, Newark, DE. For information, call (302) 366-7055. All bidders are encouraged to perform a project site visit prior to the pre-bid meeting.

2. Definitions

- A. *Agreement:* The written instrument which is evidence of the agreement between Owner and Contractor covering the Work.
- B. *Contract Documents:* Those items so designated in the Agreement. Only printed or hard copies of the items listed in the Agreement are Contract Documents. Approved Shop Drawings, other Contractor submittals, and the reports and drawings of subsurface and physical conditions are not Contract Documents.
- C. *Contractor:* The individual or entity with whom the Owner has entered into the Agreement.
- D. *Owner:* The individual or entity with whom Contract has entered into the Agreement and for whom the Work is to be performed. The Owner for this project is the City of Newark.

- E. *Shop Drawings:* All drawings, diagrams, illustrations, schedules, and other data or information which are specifically prepared or assembled by or for Contractor and submitted by Contractor to illustrate some portion of the Work.
- F. *Site:* Lands or areas indicated in the Contract Documents as being furnished by Owner upon which the Work is to be performed, including rights-of-way and easements for access thereto, and such other lands furnished by Owner which are designated for the use of Contractor.
- G. *Subcontractor* - An individual or entity having a direct contract with Contractor or with any other Subcontractor for the performance of a part of the Work at the Site.
- H. *Work:* The entire construction or the various separately identifiable parts thereof required to be provided under the Contract Documents. Work includes and is the result of performing or providing all labor, services, and documentation necessary to produce such construction, and furnishing, installing, and incorporating all materials and equipment into such construction, as required by the Contract Documents.

3. **BID SECURITY**

Each bid must be accompanied by a certified check, or cashier's check, or bid bond in the amount of 5 percent (5%) of the proposed bid price, payable to the City of Newark. Failure to provide the required bid security may be grounds for rejection of the bid.

If the successful bidder fails or refuses to execute and deliver the contract within fourteen (14) calendar days after receiving notice of the award of the contract, the successful bidder shall forfeit to the City for such failure or refusal the security deposited with the bid. Any certified check or cashier's check submitted as security shall be returned to all unsuccessful bidders sixty (60) calendar days after the bid opening date. The successful bidder shall provide the City with a Contract Surety Bond in the full amount of the contract guaranteeing faithful performance of the contract. Such bond shall be provided to the City with the executed contract within fourteen (14) calendar days after receiving notice of award of the contract. Upon receipt of the contract surety bond, the City will return any certified check or cashier's check submitted as bid security by the successful bidder.

4. TAXES

The price(s) quoted shall not include federal or state taxes. If applicable, the successful bidder shall provide the City with three (3) copies of the required tax exemption forms to accompany the bidder's invoice.

5. AWARDS

The City Manager will review each of the bids submitted and make a recommendation to the City Council on the disposition of the bids. The City Council reserves the right to accept or reject any or all bids or parts of bids as they may determine and to waive any irregularities or defects where the best interest of the City would be served.

6. BID PRICE

The bid price shall include all transportation, delivery, installation and all charges for the goods and services specified for the Corbit Street Area Water Main Replacement. The work done under this contract will be funded by the City of Newark. The State of Delaware prevailing wage schedule will therefore not be applicable to this contract.

7. TIME OF COMPLETION AND LIQUIDATED DAMAGES

The Contractor is to complete the work within one hundred and twenty (120) calendar days from the date of notification of award. Liquidated damages of one hundred fifty dollars (\$150.00) per day may be assessed to the Contractor by the City for each day the contract is extended beyond the completion date. Liquidated damages are not to be construed as a penalty in any sense.

8. INTENT OF SPECIFICATIONS

It shall be the Contractor's responsibility to furnish the goods and services specifically indicated in the scope of work and specifications and such other as may be required to meet the intent of the specifications, drawings, or as may be necessary to provide the operation intended by the City.

9. EXCEPTIONS/DESCRIPTIVE INFORMATION

Any and all exceptions which are taken to the drawings and specifications must be noted in the space provided on the proposal. Any exception to the specifications may be grounds for

rejection of the bid.

10. EQUALS

Where a specific product is specified by catalog or model number, the acceptability of any other "or equal" product shall be subject to the sole judgment of the City of Newark.

11. WARRANTIES AND STANDARDS

All goods are to be new and unused in all component parts, including all accessories. The specifications will be construed as the minimum required. When the manufacturer's standard exceeds the specifications, the standard units will be furnished. All materials shall be free of defects. All standard manufacturer's warranties and guarantees shall apply to equipment and goods supplied under this contract.

The Contractor guarantees all of the work and materials for a period of one year after the date of completion and final acceptance by the City.

12. WORKMANSHIP

Workmanship will conform to the best current manufacturing practice followed for goods of this type. Component parts and units will be manufactured to definite standard dimensions with proper fit and clearances.

13. FINAL INSPECTION

All delivered goods and services will be subject to inspection by the City of Newark, Delaware. If in any way an item fails to meet the terms of the contract, it may be rejected or liquidated damage charges made. The decision of the City will be final and any rejected items or materials will have to be replaced at the expense of the vendor.

14. ADVERTISEMENTS

Any bidder submitting a bid will not use the name of the City in any advertisement without first obtaining the written consent of the City Manager.

15. EEO AND BUSINESS LICENSES

The bidder shall possess all required business or other licenses

and also shall be a fair and equal opportunity employer.

16. NONCOLLUSION

The bidder shall not, either directly or indirectly, enter into any agreement, participate in any collusion, or otherwise take any action in restraint of free competitive bidding in connection with the contract.

17. ADDENDA AND QUESTIONS

Any changes to the contract documents shall be made by written addenda which may be issued with extensions to the bid submittal date if necessary to allow adequate time for response. Bidders shall bear the entire responsibility for being sure they have received all such addenda. Any questions regarding the bidding process should be directed to Ms. Cenise Wright, Purchasing Administrator, at (302) 366-7022. Any questions regarding the drawings and technical specifications should be directed to Mr. Thomas Coleman, PE, Director of Public Works and Water Resources, at (302) 366-7055.

18. PAYMENT

No invoice will be processed for payment until the goods and/or services have been delivered and verification is made that the specifications under this contract have been met. Progress payments, when requested, will be evaluated and approved for payment based on work completed to date according to the approved schedule of values. Payment for material stored on site will be made at 50% of the material's invoice price. Full payment will be made after the material is installed. Payment will be made within thirty (30) days of final acceptance by the City.

19. LIABILITY INSURANCE

- A. Except as otherwise provided by law, the Contractor shall at all times maintain and keep in force such insurance as will protect him from claims under Worker's Compensation Acts, and also such insurance as will protect him and the owner from any such claims for damages for personal injuries, including death, which may arise from operations under this contract, whether such operations be by the Contractor or by any Subcontractor or anyone directly or indirectly employed by any of them.
- B. The Contractor shall be required to provide Commercial

General Liability (CGL) coverage with limits of insurance not less than:

\$2,000,000 Each Occurrence Limit
\$2,000,000 Personal & Advertising Injury Limit
\$3,000,000 Annual Aggregate Limit
\$3,000,000 Products-Completed Operations Limit
\$1,000,000 Business Auto Liability Limit
\$5,000,000 Commercial Umbrella Limit

The Contractor, The City of Newark (Owner) and all other parties required of the Contractor shall be included as insured on the CGL, using Additional Insured Endorsements providing coverage as broad as the coverage provided for the named insured Subcontractor.

Subcontractors approved in association with the hiring of a Contractor shall be required to provide Commercial General Liability (CGL) coverage with limits of insurance not less than:

\$1,000,000 Each Occurrence Limit
\$1,000,000 Personal & Advertising Injury Limit
\$2,000,000 Annual Aggregate Limit
\$2,000,000 Products-Completed Operations Limit
\$1,000,000 Business Auto Liability Limit
\$3,000,000 Commercial Umbrella Limit

All Contractors shall provide Contractors Pollution Liability with limits not less than:

Each Claim or Occurrence	\$3,000,000
Annual Aggregate	\$3,000,000

The Contractors Pollution Liability policy shall include coverage for Emergency Response Costs, Contingent Transportation, Non-Owned Disposal Sites, and Natural Resource Damage. If coverage is written on a claims-made basis, an Extended Reporting Period, or tail coverage, shall be provide for two (2) years following completion of the insured's services. In the alternative, the Contractors Pollution Liability policy shall be renewed for not less than two years following completion. The policy retroactive date shall be no later than the effective date of the Agreement.

C. A copy of the Certificate of Insurance must accompany each

bid.

20. ITEMS TO BE EXECUTED AND SUBMITTED WITH BID

Bidders are notified that the proposal and the bid security must be executed and completed in full and submitted with the bid at the time of bidding, or may be subject to rejection.

21. ITEMS TO BE SUBMITTED WITH SIGNED CONTRACT

- A. Schedule of Values
- B. Construction Schedule
- C. Construction Bond
- D. Insurance Documentation

22. RETAINAGE

The City will retain 5% of the progress payments until such time as the project is complete and accepted by the City.

23. IDEMNIFICATION

The contractor shall solely be responsible and liable for the accuracy and completeness of all work performed and shall agree to indemnify, defend and hold harmless the City of Newark, its officers, agents and employees, from and against any and all claims, actions, suits and proceedings arising out of, based upon or caused by negligent acts, omissions or errors of or the infringement of any copyright of patent, by the contractor, its officers, agents, employees or subcontractors, in the performance of the contracted agreement.

24. TERMINATION OF AGREEMENT

This agreement may be terminated by the City upon thirty (30) days written notice if the contractor fails to perform satisfactorily in accordance with the terms and conditions of the contract. In the event this agreement is terminated, the contractor shall be paid for services satisfactorily rendered up to the termination date.

CITY OF NEWARK

Delaware

CONTRACT NO. 14-05

CORBIT STREET AREA WATER MAIN REPLACEMENT

SCOPE OF WORK

1. SCOPE OF WORK

The Corbit Street Area Water Main Replacement project consists of the installation of a new 6-inch ductile iron water main and appurtenances to replace an existing 6-inch cast iron water main on portions of Old Oak Road, Dallam Road, Corbit Street, and Ray Street located in the City of Newark, Delaware. The project includes, but is not necessarily limited to, the following major work items, which are described in greater detail in the attached Project Drawings:

- A. Installation of approximately 4,375 linear feet of 6-inch cement lined Class 52 ductile iron pipe and necessary bends and fittings under paved areas of Old Oak Road, Dallam Road, Corbit Street, and Ray Street.
- B. Installation of approximately thirteen (13) 6" gate valves and one (1) 4" gate valve under paved areas of Old Oak Road, Dallam Road, Corbit Street, and Ray Street.
- C. Removal of nine (9) existing gate valve boxes.
- D. Removal of six (6) fire hydrants and valve boxes and installation of six (6) new fire hydrants, leads, and isolation valves.
- E. Replacement of approximately four (4) existing domestic water services from the installed water main to the curb shut off.
- F. Installation of approximately seventy (70) short service connections from existing water main to installed main.
- G. Plugging and/or capping of existing water main and/or gate valve as indicated on the drawings.

- H. Wet tapping of existing water main as indicated on the drawings.
- I. Installation of one (1) 4' diameter sanitary sewer manhole.
- J. Paving, concrete, driveway, concrete curb and grass restoration.
- K. Disinfection and testing of all new piping.
- L. Maintenance of traffic.
- M. As noted above, the attached Project Drawings further define the scope of work. The Contractor shall furnish all the required labor, materials, equipment and appurtenances necessary for the completion of the work.

2. LOCATION

The site is located in the City of Newark, Delaware along Old Oak Road, Dallam Road, Corbit Street, and Ray Street.

3. PERMITS, CERTIFICATIONS, LAWS AND ORDINANCES

The Contractor shall perform the work in accordance with all local, state and federal laws and ordinances.

The Contractor is required to have or obtain a City Contractor's License prior to starting the work. The Contractor is required to obtain any permits required for completion of the work. The fees for City of Newark permits, if applicable, will be waived.

4. SUBMITTALS

The Contractor shall submit a minimum of three (3) copies of each submittal for review and approval by the Owner. For scheduling purposes, the Contractor shall allow for a fourteen (14) day review time by the Owner. The Contractor shall provide at a minimum the following submittals to the Owner for review and approval:

- A. Ductile iron pipe
- B. Valves
- C. Fittings
- D. Restraint couplings

- E. Wet tap sleeves and valves
- F. Mechanical joint valves
- G. Valve boxes
- H. Water service materials and fittings
- I. Fire hydrants
- J. Sanitary Sewer Manhole
- K. As-built drawings

Additional submittals may be requested at the discretion of the Owner.

5. SECURITY AND SITE ACCESS

The work area is on a public road. The Contractor is responsible to establish a laydown area and for the security of the equipment and materials related to the work. The laydown area must be approved by the City before construction activities can begin. The Contractor must provide sanitary facilities on site for the duration of the project.

It shall be the responsibility of the contractor to obtain permission from any neighboring property owner if said contractor finds it necessary to enter upon or use in any manner the property of any neighbor for the expedition of the contractor's work.

6. SITE CONSTRUCTION AND EXISTING UTILITIES

- A. The Contractor is responsible to account for and consider existing site conditions and existing utilities. Prior to starting any work, the Contractor shall contact Miss Utility of Delmarva at 1-800-282-8555 for a utility mark out. The Contractor is responsible for locating and protecting existing utilities for the duration of the work.
- B. The failure to show on the contract drawings any existing utilities shall not relieve the contractor of his responsibility in determining the locations of utilities.
- C. Any damage done to existing utility lines, services, poles and structures shall be repaired or replaced by the Contractor at his own expense. The Contractor shall notify all possible owners of utilities in the areas where work is to be done of the schedule and extent of such work.

7. EXAMINATION OF SITE, DRAWINGS, ETC.

Before submitting proposals, bidders shall inform themselves fully of the nature of the work by a personal examination of the site and the drawings and by such other means as they may prefer or consider necessary, as to matters, conditions and considerations bearing on or in any way affecting the preparation of their proposals and the contract. They shall not, at any time after submission of the proposal, dispute the accuracy of such drawings or the specifications and the general conditions nor assert that there is any misunderstanding in regard to the location, extent or nature of the work to be performed.

8. STARTING DATE AND SEQUENCE OF CONSTRUCTION

The starting date of this contract will be as specified by the City in a written "Notice to Proceed." The Contractor is required to complete all work on Ray Street by July 30, 2014. A preconstruction meeting shall be scheduled to finalize the sequence of construction. The final decision as to sequence of construction shall be that of the Owner.

9. SUPERVISION OF WORK AND COORDINATION

The contractor shall supervise the work and shall secure full cooperation of all subcontractors, if any, to complete the work with a minimum of interference with the operating personnel of the Owner.

10. COORDINATION WITH THE OWNER

The contractor shall coordinate all activities with the City including but not limited to traffic control, requests for system shut downs, and inspections. The contractor shall provide the City with reasonable time to respond to requests for information and for coordination.

11. INSPECTION OF MATERIAL AND WORK

A. Workmanship shall be of good quality and all work and material shall be at all times subject to the inspection of the City of Newark or their duly authorized representatives. The contractor shall provide reasonable and necessary facilities for such inspection. If required by the City, the contractor shall take down or uncover portions of the finished work.

- B. The contractor agrees that in the event that any of the material or work, or both, shall be rejected as defective or unsuitable by the City, the material shall be replaced and the work shall be done again immediately to the satisfaction and approval of the City at the cost and expense of the Contractor.
- C. Any omission or failure on the part of the City of Newark or its inspectors to disapprove or reject any defective work or materials shall not be construed to be acceptance of any defective work or material.

12. WORKING HOURS

- A. Normal working hours are 7:00 am to 5:00 pm Monday through Friday. Allowable working hours are from 7:00 a.m. to 9:00 p.m. Monday through Saturday, and 9:00 a.m. to 9 p.m. on Sunday when written authorization has been granted from the Owner. The Contractor is not permitted to work on holidays.
- B. In the event that the contractor works outside of the above stated hours, the contractor shall be required to pay for inspection or engineering services performed during these times. Payments for these additional services shall be made by a reduction in the amount paid to the Contractor based upon the hourly rates defined in the table below.

Labor Classification	Hourly Rate
Inspecting Services	\$85.00
Engineering Services	\$125.00

Contractor shall notify the Owner forty eight (48) hours in advance of their intent of working outside of normal working hours.

13. PROTECTION TO PUBLIC AND PROPERTY

- A. The contractor shall insure protective measures to the general public and to occupants of property along and adjacent to the work area.
- B. The contractor is responsible for any and all damage or injury of any kind which directly or indirectly may be done to any property or sustained by any persons during the execution of the work.

- C. If any direct or indirect damage or injury is done to public or private property by or on account of any act, omission, neglect or misconduct in the execution of the work, the contractor shall restore at his own expense such property to a condition similar or equal to that existing before such damage or injury was done by repairing, rebuilding or otherwise restoring as may be directed, or he shall make good such damage or injury in an acceptable manner.

14. SAFETY PRECAUTIONS

- A. The Contractor shall execute work under this contract with the utmost concern for the safety of the general public. All areas worked upon and subject to travel by the public shall be identified with the proper warning indicators and signs during the working period. Upon completion of the contract or when such areas are reopened to public travel, they shall be rendered in a safe condition using either temporary or permanent repair material as the case may be. No private driveway shall be blocked or closed without the property owner being notified prior to construction.
- B. Streets, roads and driveways used by the contractor for access to and from the work site shall be protected from damage in excess of that caused by the normal traffic of vehicles used for or in connection with construction work. Any such damage done shall be repaired immediately and left in good condition at the end of the construction period and shall be repaired at the contractor's expense.

15. RIGHT-OF-WAY

All operations shall be confined to the assigned work area. The City will provide no right-of-way over other properties. The contractor shall take every precaution to minimize the inconvenience to the owners or tenants of adjacent property. Public roads shall not be obstructed in such a way as to cut off traffic. The contractor shall, at his own expense, repair any damage or injury to either public or private property during the progress of the work.

16. TRAFFIC CONTROL AND ROAD SIGNS

The contractor shall be responsible for traffic control for the duration of the project and shall coordinate traffic control plans and obtain necessary permits from DELDOT for work on or near state owned roads including but not limited to New London Road (SR-896). The contractor shall be responsible for removal and re-installation of all signs in the work area. Signs necessary for the safe movement of traffic shall be maintained in operation during construction. Any other signs shall be properly stored by the Contractor, who shall be responsible for them.

17. EXCAVATED MATERIAL

It shall be the responsibility of the contractor to dispose of all excavated material which in the opinion of the City is unsatisfactory for backfill or fill. The cost of this disposal shall be borne by the contractor.

18. DUST CONTROL/EROSION AND SEDIMENT CONTROL

It shall be the responsibility of the contractor to handle dust control on this project and necessary erosion and sediment controls required by the City and State, including but not limited to stormwater inlet protection.

19. WATER SUPPLY

The contractor shall not use City fire hydrants without permission and advance notice. The contractor shall schedule and perform work in a manner that minimizes disruption of water service to City of Newark customers. The Contractor shall not operate any water valves unless permission in writing is granted by the City.

20. JOB SITE MAINTENANCE, RESTORATION AND CLEANUP

The contractor is responsible to restore all disturbed areas to original or better condition and remove all debris, residuals, trash, and excess materials from the site. The contractor is required to keep the work area clean during construction and remove trash as it accumulates. Roads shall be kept clean and free of mud, debris and dirt. The contractor is responsible for the cost of street sweeping and maintenance required for upkeep of clean road surfaces.

21. DRAWINGS

Project Drawings are included as Attachment 1. Equipment and materials specifications are contained on the project drawings.

22. PROGRESS MEETINGS

Throughout the construction period, progress meetings may be held as needed to discuss the work at hand, the progress, the schedule, or various events to coordinate and expedite the work.

CITY OF NEWARK

Delaware

CONTRACT NO. 14-05

CORBIT STREET AREA WATER MAIN REPLACEMENT

SPECIFICATON FOR THE

INSTALLATION OF WATER MAINS, LATERALS, VALVES, FIRE HYDRANTS &
SANITARY SEWER MANHOLE

1. SCOPE OF WORK

The Scope of Work consists of furnishing all materials and equipment and performing all labor necessary for the installation of the water mains, laterals, valves, fire hydrants and appurtenances complete to the limits shown on the plans and as specified. The work shall include any removal of old concrete curbs and gutters, all ditching, diking, shoring and bracing, pumping, bailing, draining, flushing and testing, and all provisions necessary to protect and maintain buildings, fences, water and waste water and gas pipes, power and telephone lines and cables and other structures. The work shall also include replacing of the necessary pavements, curbs and sidewalks, topsoil and seeding and the cleaning away of all rubbish and surplus material, and the furnishing of all material and tools, implements and labor required to build and put in complete working order the water main, services and all structures pertaining thereto.

2. BACKFILLING AND COMPACTION

All trenches and excavation of roads and streets shall be backfilled immediately after the pipes are laid therein, unless other protection of the pipe lines is directed. The backfilling material shall be selected and deposited with special reference to the future safety of the pipe. Except where special methods of bedding and tamping are provided for, clean granular earth, sand or stone shall be solidly tamped above the pipe up to a level one foot above the top of the pipes, and shall be carefully deposited in uniform 6" layers, each layer solidly tamped or rammed with proper tools so as not to injure or disturb the pipe line. The remainder of the backfilling of the trench shall be carried on simultaneously on both sides of the pipes in such a manner that

injurious side pressures do not occur. After placing the backfill up to a level below the natural ground surface, surplus excavation shall be windrowed and maintained in a suitable manner to concentrate and pond surface run-off from rains over the trench; after sufficient settlement has been obtained, in the opinion of the City, the contractor shall complete the dressing of the sub soil to four (4) inches below existing grade, apply top soil and seed to match surrounding finish grade, remove surplus material and perform surface cleanup in accordance with these specifications.

Backfilling across City owned paved surfaces and streets shall be as follows:

- A. Select borrow from the bottom of the trench to one foot above the top of the pipe.
- B. Backfill the balance of the trench with GABC Type B or crusher run in 6-inch compacted layers.
- C. 6 inches of Type B hotmix shall be placed on the concrete flush with the existing roadway.

3. MAINTENANCE OF TRAFFIC

The road, while undergoing improvements, shall be kept open to all traffic by the contractor unless otherwise directed by the City. The contractor shall keep the portion of the road being used by public traffic in such condition that traffic will be adequately accommodated. He shall also provide and maintain in a safe condition temporary approaches to crossings, intersections, roads, streets, businesses, parking lots, residences, garages, etc.

In carrying on the work, the contractor shall interfere as little as possible with traffic. The contractor shall provide and maintain ingress and egress for all residences and places of business located along the construction route. So far as practicable, materials stored upon the roadway shall be placed so as to cause as little obstruction to the traveling public as possible. If it is necessary to keep the road or any portion of it closed to travel during the construction thereof, the contractor shall so carry on the work and provide such means that travel will not be obstructed or endangered. Buses and emergency vehicles shall have access to the road at all times during construction. The contractor shall provide and maintain in an acceptable condition such temporary roadways and bridges as may be necessary to accommodate the traffic using or diverted from the roadway under construction and shall provide and maintain in a safe condition temporary approaches to and crossing of inter-

secting highways. Fire hydrants on or adjacent to the roadway shall be kept accessible within 15 feet of any such hydrant. The contractor shall not disturb the surface of an existing road farther in advance of the new construction than can be completed in a reasonable length of time as determined by the engineer. The contractor shall provide and maintain properly illuminated signs and barricades for the information, protection, and safety of the traveling public, conforming to the City's practices for street and road construction.

4. TEST PITS

Test pits, if necessary, shall be completed to determine the location and elevation of utilities in the construction area. The contractor should rely on its own expertise to determine need for test pits. Restoration of test pit areas shall be as per the details on the drawings and return the test pitted area back to the ground surface elevation, conditions, structures, and vegetative coverage back to its existing conditions prior to test pitting or as detailed on the project plans.

5. TEMPORARY SERVICE PIPES

As necessary, the contractor shall furnish, install, and remove by-pass and temporary service pipe of the size required from which connections shall be made to water customers. In certain cases, it may be possible to make connections which will serve during the temporary period. The work of furnishing, installing service and other branches, maintaining, providing suitable safety precautions and removal of the temporary service pipe shall be the responsibility of the contractor.

The temporary service pipe, connections and branches shall be of the highest quality, and shall be fully adequate to withstand 150 psi pressures and all conditions of use. The installation shall be watertight. Care shall be exercised throughout to avoid any possible pollution of mains, hose services, or the temporary service pipe.

Generally, temporary service pipe shall be laid in the gutters. At driveways, pipe crossings shall be provided by cold patch cover or other approved method. At street intersections, pipe shall be laid in a shallow trench covered with the temporary surfacing. Sanitary precautions shall be satisfactory to the engineer. The interior of temporary service pipe shall be chlorinated in accordance with the latest AWWA Manual C 601-54 "AWWA Standard for Disinfecting Water Mains". Chlorine and

bacteria testing shall be taken by City Inspector. Results from test will take thirty six (36) hours.

6. DOMESTIC WATER SERVICES

Tap the new water main in line or in the most direct route with existing water service and curb stop. For road crossings, air mole, jack, or directional bore the street or roadway, keeping street and roadway restoration to a minimum. Connect the existing service to the new corporation stop, curb stop, and piping.

The transfer of the service shall include all piping, couplings, labor, tools, equipment and machinery and incidentals necessary to complete this item. Replacement of domestic services shall include a new curb stop and box.

- A. Corporation stops shall be 1" inch Mueller H-15010, tapped on upper 1/3 (45 degree).
- B. Saddle taps shall be Mueller BR2B Brass.
- C. Curb stops shall be Mueller H-15201 or H-15209.
- D. Curb boxes shall be Mueller H-10350, or equal.
- E. House services shall be ¾ inch soft copper tubing type "K".
- F. Minimum depth of cover is 42 inches.

7. WATER MAINS & FITTINGS

- A. All water mains shall be Ductile Iron push on, Class 52, with locking gaskets, unless otherwise specified. Minimum cover of 48 inches.
- B. Main gate valves shall be Mueller A-2360 or H-2370-20, open left.
- C. Valve boxes shall be Mueller H-10360, or equal.
- D. All bends shall be concrete buttressed and wrapped with plastic to the dimensions listed on the project plans
- E. Mechanical joint couplings shall be EBAA Iron Megalug Series 1100 unless otherwise noted on the plans.
- F. Tapping sleeves shall be Mueller H-615.
- G. Tapping valve shall be Mueller T-2360.
- H. MJ Plugs and restraints shall be manufactured by Tyler Pipe or approved equal.

8. FIRE HYDRANTS

- A. Hydrant laterals shall be restraining tee, 6 inch resilient gate valve and box with 6 inch Ductile Iron Pipe.
- B. Hydrants shall be Mueller A-423, buttressed and rodded.
- C. Size Valve Opening: 5 ¼ inch, open left.
- D. Nozzle Arrangement: Two 2½ inch hose connections, National Standard Thread; One 4½ inch pumper connection, National Standard Thread.
- E. Lateral Connection - 6 inch mechanical joint.
- F. Operating Nuts - All 1½ inch pentagon.

9. SANITARY SEWER MANHOLE

- A. Sanitary sewer manhole shall be constructed per the detail on the drawing. All work required to complete installation of sanitary sewer manhole shall be incidental to unit cost of installation.

10. DISINFECTION AND TESTING OF WATER MAINS

Water mains shall be hydrostatically tested and disinfected in accordance with the State of Delaware Office of Drinking Water requirements, the manufacturer's instructions, AWWA C600, and AWWA C651. The main shall be filled with potable water and brought to a pressure of at least 150 psi. Fire hydrants, fire services and water services shall be included in the testing.

11. AS-BUILT DRAWINGS

The contractor shall provide two sets of final as-built drawings to the City. The as-built drawings must reflect any field changes and indicate ties for the location of valves, bends, manholes, fire hydrants, and services, etc.

12. METHOD OF MEASUREMENT

The measurement of payment shall be for the installation of the materials listed in the Proposal in accordance with the units indicated as Each and the number of Linear Feet of pipe, excluding the portion of pipe installed as part of other accessories, complete and accepted by Owner.

The removal of fire hydrants shall be incidental to the cost of installation.

For wet taps, the cost of the gate valve is incidental to the cost of the tap.

13. BASIS OF PAYMENT

Payment for these items shall be included in the unit prices for Items #1-#14 as described in the Proposal.

All other items, methods, and materials necessary to complete the work as described above shall be incidental to the bid item the work is being completed under.

The Owner reserves the right to delete from the Contract one or more items listed and the right to add or subtract from the quantity of each item. The total price to be paid will be adjusted in accordance with the Contractor's unit prices as required above. There will be no extra compensation or increase in unit prices in the Proposal if such additions and/or deletions are made to quantities.

CITY OF NEWARK

Delaware

CONTRACT NO. 14-05

CORBIT STREET AREA WATER MAIN REPLACEMENT

PROPOSAL

To: The Mayor and City Council
Newark, Delaware

From: _____

The undersigned as a lawfully authorized agent for the below named bidder has carefully examined the Bid Documents to be known as Contract No. 14-05 and binds himself on award to him by the Mayor and City Council of Newark, Delaware to execute in accordance with such award, a contract of which this Proposal and said General Provisions and Specifications and any Addenda shall be a part, and to furnish the goods as specified F.O.B. Newark, Delaware in a manner that is in complete accordance with said General Provisions and Specifications at the following named unit price on or before the delivery period stated below:

Item No.	Approx. Quantity	Description of Items and Prices in Bid (In Written Words)	Unit Price Dollar	Amount Dollar
1	4,375 LF	Install 6-inch Cement Lined Class 52 Ductile Iron Pipe, Bends and Fittings		
		Per Linear Foot (In Written Words)		
2	14 EA	Install 6" Gate Valve		
		Each (In Written Words)		
3	13 EA	Remove Existing Valve Box		
		Each (In Written Words)		

Item No.	Approx. Quantity	Description of Items and Prices in Bid (In Written Words)	Unit Price Dollar	Amount Dollar
4	5 EA	Install Fire Hydrant, Lead, and Isolation Valve		
		Each (In Written Words)		
5	4 EA	Replace Existing Domestic Water Service & Curb Shut Off (Long Service)		
		Each (In Written Words)		
6	70 EA	Install Corporation Stop and Splicing of Existing Domestic Water Service (Short Service)		
		Each (In Written Words)		
7	26 EA	Cap Existing Water Main		
		Each (In Written Words)		
8	3 EA	Plug Existing Water Main at Gate Valve		
		Each (In Written Words)		
9	1 EA	Wet Tap Existing Water Main (12"x6")		
		Per Linear Foot (In Written Words)		
10	1 EA	Wet Tap Existing Water Main (16"x6")		
		Per Linear Foot (In Written Words)		
11	2 EA	Wet Tap Existing Water Main (6"x6")		
		EA (In Written Words)		

BIDDER: _____

Item No.	Approx. Quantity	Description of Items and Prices in Bid (In Written Words)	Unit Price Dollar	Amount Dollar
12	4,287 LF	Repair City Road		
		Per Linear Foot (In Written Words)		
13	88 LF	Repair State Road		
		Per Linear Foot (In Written Words)		
14	1 EA	Install 4' Diameter Sanitary Sewer Manhole		
		Each (In Written Words)		
15	1 EA	Install 4" Gate Valve		
		Each (In Written Words)		

Total Bid \$ _____

CITY OF NEWARK

Delaware

CONTRACT NO. 14-05

CORBIT STREET AREA WATER MAIN REPLACEMENT

PROPOSAL

Project to be Completed by _____

DATE: _____ BIDDER: _____

By: _____
Its legally authorized representative

PRINT NAME: _____

TITLE: _____

ADDRESS: _____

CITY, STATE, ZIP: _____

TELEPHONE: _____

CITY OF NEWARK

Delaware

CONTRACT NO. 14-05

CORBIT STREET AREA WATER MAIN REPLACEMENT

BOND TO ACCOMPANY PROPOSAL

(not necessary if certified or cashier's check is used)

KNOW ALL MEN BY THESE PRESENTS THAT _____
of _____ of the County of _____
and State of _____, principal, and
of _____ as surety, legally authorized to
do business in the State of Delaware, are held and firmly bound
unto the City of Newark in the sum of
_____ Dollars, to be paid to said City of Newark
for use and benefit of the Mayor and Council of Newark, for which
payment well and truly to be made, we do bind ourselves, our and
each of our heirs, executors, administrators and successors,
jointly and severally, for and in the whole, by these presents.
Sealed with our seal dated the _____ day of
in the year of our Lord, two thousand and fourteen (2014).

NOW THE CONDITIONS OF THIS OBLIGATIONS IS SUCH, that if the
above bounded principal who has submitted to said City of Newark,
a certain proposal to enter into a certain Contract No. 14-05,
Corbit Street Area Water Main Replacement, and if said
_____ shall well and truly enter into and
executes said contract and furnish therewith such Surety Bond or

Bonds as may be required by the terms of said contract and approved by said City of Newark, said Contract, and said Bond to be entered into within fourteen (14) days after the date of official notice of award thereof in accordance with the terms of said proposal, then this obligation to be void, otherwise shall remain in full force and virtue.

SIGNED AND SEALED IN THE SIGNED _____ (SEAL)

PRESENCE OF WITNESS:

BY _____ (SEAL)

_____ SIGNED _____ (SEAL)

BY _____ (SEAL)